
Surface mounted light-emitting diode array comprises a flexible circuit board which is mounted on a longitudinal narrow side of a cooling element

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Patent Family

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Patent Details

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Abstract:

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NOVELTY The surface mounted light-emitting diode (LED) array (10) comprises a flexible circuit board (14) with LEDs which is mounted on a longitudinal narrow side (19a) of a cooling element (16).

USE For external lighting, in particular, brake and warning lights of motor vehicles.

ADVANTAGE Heat removal from the LED array is improved.

DESCRIPTION OF DRAWING(S) The drawing shows an example of the proposed LED array.

LEDs (12)

Flexible circuit board (14)

Intermediate layer (15)

Cooling element (16)

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Technology Focus:

TECHNOLOGY FOCUS - POLYMERS - The mounting arrangement of the LED array can include an intermediate layer of an electrically insulating epoxy resin with embedded particles of a material with good thermal conductivity. The materials for flexible circuit boards include polyester and polyimide foil.

